

June 29, 1947.

Dr. Jacques Monod,
Institut Pasteur,
Paris.

Dear Monod-

In line with our correspondence, I am sending herewith a number of cultures, chosen so as to allow the most clear-cut comparisons with respect to the lactose-galactose interaction. As I wrote previously, the Lac character has been scored in terms of the response to EMB medium.

1. K-12 original wild-type strain. Lac+
2. Y53 Lac- mutant obtained in a strain (Y10) requiring threonine, leucine and thiamin.
3. Y76 Lac+ reversion obtained from papillae of Y53 on EMB-lactose agar. Tested genetically and shown to be a reversion at the Lac- locus.
4. Y55 Lac- prototroph obtained from a cross between Y53 and a strain requiring biotin and methionine (Y40).
5. Y87 A Lac- mutant obtained in a strain (Y40) requiring biotin and methionine, and mutated for resistance to phage T1. This strain does not form papillae, on EMB.
6. Y40 The Lac+ double mutant B-M- also V_1^r .

The obvious comparisons are of course: K-12: Y55; Y53:Y76 ; and Y87:Y40. The Lac- character of Y53 and Y87 have been shown to be allelic although they apparently differ in their rates of reverse-mutation.

Best of luck with these strains; I do hope to see you this summer. Please refer any requests for them directly to us, so that we can remain aware of what is being done with them. Please extend our best regards to Dr. Lwoff, and Dr. Latarjet.

Yours sincerely,

Joshua Lederberg.

P.S. If available, we should like to have a transfer of the 'commercial anti-coli phage mixture referred to in E. Wollman's recent paper. Would this be possible? J.L.